

Harald Schuh

List of Publications by Year in descending order

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118
papers

5,831
citations

159358

30
h-index

76769

74
g-index

162
all docs

162
docs citations

162
times ranked

3128
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial and Temporal Distributions of Ionospheric Irregularities Derived from Regional and Global ROTI Maps. <i>Remote Sensing</i> , 2022, 14, 10.	1.8	8
2	Improving the Vertical Modeling of Tropospheric Delay. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	9
3	Stability analysis of the Iraqi GNSS stations. <i>Journal of Applied Geodesy</i> , 2022, 16, 299-312.	0.6	2
4	Inter-Comparison of UT1-UTC from 24-Hour, Intensives, and VGOS Sessions during CONT17. <i>Sensors</i> , 2022, 22, 2740.	2.1	3
5	Improving VLBI analysis by tropospheric ties in GNSS and VLBI integrated processing. <i>Journal of Geodesy</i> , 2022, 96, 1.	1.6	10
6	Impact of the image alignment over frequency for the VLBI Global Observing System. <i>Astronomy and Astrophysics</i> , 2022, 663, A83.	2.1	5
7	GGOS Bureau of Products and Standards: Description and Promotion of Geodetic Products. <i>International Association of Geodesy Symposia</i> , 2022, , .	0.2	1
8	GLONASS FDMA data for RTK positioning: a five-system analysis. <i>GPS Solutions</i> , 2021, 25, 1.	2.2	20
9	Evidence of the Gaia VLBI position differences being related to radio source structure. <i>Astronomy and Astrophysics</i> , 2021, 647, A189.	2.1	11
10	Performance Evaluation of VTEC GIMs for Regional Applications during Different Solar Activity Periods, Using RING TEC Values. <i>Remote Sensing</i> , 2021, 13, 1470.	1.8	10
11	Imaging VGOS Observations and Investigating Source Structure Effects. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021238.	1.4	7
12	Observable quality assessment of broadband very long baseline interferometry system. <i>Journal of Geodesy</i> , 2021, 95, 1.	1.6	10
13	Alternative Approach for Tsunami Early Warning Indicated by Gravity Wave Effects on Ionosphere. <i>Remote Sensing</i> , 2021, 13, 2150.	1.8	0
14	The Role of Spatial Gradient on Vertical Total Electron Content Extraction From Geodetic Very Long Baseline Interferometry Observation: Case Study CONT08 to CONT17. <i>Space Weather</i> , 2021, 19, e2020SW002633.	1.3	2
15	The effect of function-based and voxel-based tropospheric tomography techniques on the GNSS positioning accuracy. <i>Journal of Geodesy</i> , 2021, 95, 1.	1.6	11
16	GNSS-based water vapor estimation and validation during the MOSAiC expedition. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5127-5138.	1.2	9
17	Coastal sea-surface wave measurements using software-based GPS reflectometers in Lanyu, Taiwan. <i>GPS Solutions</i> , 2021, 25, 1.	2.2	3
18	A Comparative Study on the Solar Radiation Pressure Modeling in GPS Precise Orbit Determination. <i>Remote Sensing</i> , 2021, 13, 3388.	1.8	4

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19	Operational Multi-GNSS Global Ionosphere Maps at GFZ Derived From Uncombined Code and Phase Observations. <i>Radio Science</i> , 2021, 56, e2021RS007337.	0.8	6
20	Diagnostics of Es Layer Scintillation Observations Using FS3/COSMIC Data: Dependence on Sampling Spatial Scale. <i>Remote Sensing</i> , 2021, 13, 3732.	1.8	3
21	The Potsdam Open Source Radio Interferometry Tool (PORT). <i>Publications of the Astronomical Society of the Pacific</i> , 2021, 133, 104503.	1.0	3
22	Towards Understanding the Interconnection between Celestial Pole Motion and Earth's Magnetic Field Using Space Geodetic Techniques. <i>Sensors</i> , 2021, 21, 7555.	2.1	2
23	Integrated processing of ground- and space-based GPS observations: improving GPS satellite orbits observed with sparse ground networks. <i>Journal of Geodesy</i> , 2020, 94, 1.	1.6	8
24	Occurrence climatology of equatorial plasma bubbles derived using FormoSat-3's COSMIC GPS radio occultation data. <i>Annales Geophysicae</i> , 2020, 38, 611-623.	0.6	20
25	Improving Low Earth Orbit (LEO) Prediction with Accelerometer Data. <i>Remote Sensing</i> , 2020, 12, 1599.	1.8	12
26	Evaluation of VLBI Observations with Sensitivity and Robustness Analyses. <i>Mathematics</i> , 2020, 8, 939.	1.1	1
27	Drift of the Earth's Principal Axes of Inertia from GRACE and Satellite Laser Ranging Data. <i>Remote Sensing</i> , 2020, 12, 314.	1.8	1
28	Automatic Calibration of Process Noise Matrix and Measurement Noise Covariance for Multi-GNSS Precise Point Positioning. <i>Mathematics</i> , 2020, 8, 502.	1.1	7
29	Use of GNSS Tropospheric Products for Climate Monitoring (Working Group 3). , 2020, , 267-402.		7
30	Validating HY-2A CMR precipitable water vapor using ground-based and shipborne GNSS observations. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 4963-4972.	1.2	16
31	Future GNSS Infrastructure for Improved Geodetic Reference Frames. , 2020, , .		3
32	On the impact of local ties on the datum realization of global terrestrial reference frames. <i>Journal of Geodesy</i> , 2019, 93, 655-667.	1.6	16
33	LEO enhanced Global Navigation Satellite System (LeGNSS) for real-time precise positioning services. <i>Advances in Space Research</i> , 2019, 63, 73-93.	1.2	65
34	Precise Onboard Real-Time Orbit Determination with a Low-Cost Single-Frequency GPS/BDS Receiver. <i>Remote Sensing</i> , 2019, 11, 1391.	1.8	8
35	Advanced technologies for satellite navigation and geodesy. <i>Advances in Space Research</i> , 2019, 64, 1256-1273.	1.2	52
36	Correcting surface loading at the observation level: impact on global GNSS and VLBI station networks. <i>Journal of Geodesy</i> , 2019, 93, 2003-2017.	1.6	19

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37	Sea-Ice Concentration Derived From GNSS Reflection Measurements in Fram Strait. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 10350-10361.	2.7	18
38	Structure Effects for 3417 Celestial Reference Frame Radio Sources. <i>Astrophysical Journal, Supplement Series</i> , 2019, 242, 5.	3.0	19
39	Retrieving Precipitable Water Vapor From Shipborne Multi-GNSS Observations. <i>Geophysical Research Letters</i> , 2019, 46, 5000-5008.	1.5	46
40	Evaluating the impact of higher-order ionospheric corrections on multi-GNSS ultra-rapid orbit determination. <i>Journal of Geodesy</i> , 2019, 93, 1347-1365.	1.6	4
41	Characterization of GPS-TEC over African equatorial ionization anomaly (EIA) region during 2009-2016. <i>Advances in Space Research</i> , 2019, 63, 282-301.	1.2	13
42	Perturbations in atmospheric gaseous components over coastal Antarctica detected in GPS signals and its natural origin to volcanic eruption. <i>Polar Science</i> , 2019, 19, 69-76.	0.5	8
43	ICGEM - 15 years of successful collection and distribution of global gravitational models, associated services, and future plans. <i>Earth System Science Data</i> , 2019, 11, 647-674.	3.7	172
44	Three-frequency BDS precise point positioning ambiguity resolution based on raw observables. <i>Journal of Geodesy</i> , 2018, 92, 1357-1369.	1.6	81
45	Long-Term Evaluation of Ocean Tidal Variation Models of Polar Motion and UT1. <i>Pure and Applied Geophysics</i> , 2018, 175, 1611-1629.	0.8	4
46	Editorial note for the <i>Geodesy and Geodynamics</i> journal special issue. <i>Geodesy and Geodynamics</i> , 2018, 9, 183-186.	1.0	1
47	GPS/GLONASS Combined Precise Point Positioning With the Modeling of Highly Stable Receiver Clock in the Application of Monitoring Active Seismic Deformation. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4025-4040.	1.4	9
48	PPP Without Troposphere Estimation: Impact Assessment of Regional Versus Global Numerical Weather Models and Delay Parameterization. <i>International Association of Geodesy Symposia</i> , 2018, , 107-118.	0.2	3
49	Global morphology of ionospheric sporadic E layer from the FormoSat-3/COSMIC GPS radio occultation experiment. <i>GPS Solutions</i> , 2018, 22, 1.	2.2	38
50	Estimating Integrated Water Vapor Trends From VLBI, GPS, and Numerical Weather Models: Sensitivity to Tropospheric Parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6356-6372.	1.2	37
51	Initial Assessment of Precise Point Positioning with LEO Enhanced Global Navigation Satellite Systems (LeGNSS). <i>Remote Sensing</i> , 2018, 10, 984.	1.8	66
52	Real-Time Sensing of Precipitable Water Vapor From BeiDou Observations: Hong Kong and CMONOC Networks. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7897-7909.	1.2	15
53	Temporal changes in atmospheric water content during the December 2004 Sumatra earthquake as estimated from GPS signals and its possible connection to the January 2005 California flash flood. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	1
54	A Global Terrestrial Reference Frame from simulated VLBI and SLR data in view of GGOS. <i>Journal of Geodesy</i> , 2017, 91, 723-733.	1.6	10

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55	Improving BeiDou precise orbit determination using observations of onboard MEO satellite receivers. <i>Journal of Geodesy</i> , 2017, 91, 1447-1460.	1.6	14
56	The Role of GNSS Vertical Velocities to Correct Estimates of Sea Level Rise from Tide Gauge Measurements in Greece. <i>Marine Geodesy</i> , 2017, 40, 297-314.	0.9	13
57	Fast BDS Positioning Convergence Based on the Contribution of GPS Observations. <i>Marine Geodesy</i> , 2017, 40, 404-415.	0.9	1
58	Improving the modeling of the atmospheric delay in the data analysis of the Intensive VLBI sessions and the impact on the UT1 estimates. <i>Journal of Geodesy</i> , 2017, 91, 857-866.	1.6	9
59	Improving BeiDou real-time precise point positioning with numerical weather models. <i>Journal of Geodesy</i> , 2017, 91, 1019-1029.	1.6	53
60	The impacts of source structure on geodetic parameters demonstrated by the radio source 3C371. <i>Journal of Geodesy</i> , 2017, 91, 767-781.	1.6	9
61	On the consistency of the current conventional EOP series and the celestial and terrestrial reference frames. <i>Journal of Geodesy</i> , 2017, 91, 135-149.	1.6	11
62	An Improved Empirical Harmonic Model of the Celestial Intermediate Pole Offsets from a Global VLBI Solution. <i>Astronomical Journal</i> , 2017, 154, 166.	1.9	12
63	Tropospheric delay parameters from numerical weather models for multi-GNSS precise positioning. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5965-5973.	1.2	42
64	GNSS tropospheric gradients with high temporal resolution and their effect on precise positioning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 912-930.	1.2	30
65	THE SOURCE STRUCTURE OF 0642+449 DETECTED FROM THE CONT14 OBSERVATIONS. <i>Astronomical Journal</i> , 2016, 152, 151.	1.9	15
66	Testing a new Free Core Nutation empirical model. <i>Journal of Geodynamics</i> , 2016, 94-95, 59-67.	0.7	20
67	Improving integer ambiguity resolution for GLONASS precise orbit determination. <i>Journal of Geodesy</i> , 2016, 90, 715-726.	1.6	22
68	Multi-technique comparison of atmospheric parameters at the DORIS co-location sites during CONT14. <i>Advances in Space Research</i> , 2016, 58, 2758-2773.	1.2	5
69	Determination of a terrestrial reference frame via Kalman filtering of very long baseline interferometry data. <i>Journal of Geodesy</i> , 2016, 90, 1311-1327.	1.6	9
70	Ray tracing technique for global 3-D modeling of ionospheric electron density using GNSS measurements. <i>Radio Science</i> , 2015, 50, 539-553.	0.8	20
71	Tropospheric delay determination by Kalman filtering VLBI data. <i>Earth, Planets and Space</i> , 2015, 67, .	0.9	22
72	Application of Kalman filtering in VLBI data analysis. <i>Earth, Planets and Space</i> , 2015, 67, .	0.9	44

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73	Retrieving of atmospheric parameters from multi-GNSS in real time: Validation with water vapor radiometer and numerical weather model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7189-7204.	1.2	85
74	GPS derived Zenith Total Delay (ZTD) observed at tropical locations in South India during atmospheric storms and depressions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 125-126, 1-7.	0.6	17
75	Estimating the yaw-attitude of BDS IGSO and MEO satellites. <i>Journal of Geodesy</i> , 2015, 89, 1005-1018.	1.6	54
76	Precise positioning with current multi-constellation Global Navigation Satellite Systems: GPS, GLONASS, Galileo and BeiDou. <i>Scientific Reports</i> , 2015, 5, 8328.	1.6	264
77	Atmospheric modeling for co-located VLBI antennas and twin telescopes. <i>Journal of Geodesy</i> , 2015, 89, 655-665.	1.6	5
78	Accuracy and reliability of multi-GNSS real-time precise positioning: GPS, GLONASS, BeiDou, and Galileo. <i>Journal of Geodesy</i> , 2015, 89, 607-635.	1.6	521
79	Real-time retrieval of precipitable water vapor from GPS and BeiDou observations. <i>Journal of Geodesy</i> , 2015, 89, 843-856.	1.6	73
80	New VLBI2010 scheduling strategies and implications on the terrestrial reference frames. <i>Journal of Geodesy</i> , 2014, 88, 449-461.	1.6	37
81	Tidal Love and Shida numbers estimated by geodetic VLBI. <i>Journal of Geodynamics</i> , 2013, 70, 21-27.	0.7	21
82	A Priori Gradients in the Analysis of Space Geodetic Observations. <i>International Association of Geodesy Symposia</i> , 2013, , 105-109.	0.2	5
83	Free core nutation observed by VLBI. <i>Astronomy and Astrophysics</i> , 2013, 555, A29.	2.1	28
84	New approach for earthquake/tsunami monitoring using dense GPS networks. <i>Scientific Reports</i> , 2013, 3, 2682.	1.6	16
85	Atmospheric Pressure Loading. <i>Springer Atmospheric Sciences</i> , 2013, , 137-157.	0.4	26
86	Ray-traced tropospheric delays in VLBI analysis. <i>Radio Science</i> , 2012, 47, .	0.8	32
87	VLBI: A fascinating technique for geodesy and astrometry. <i>Journal of Geodynamics</i> , 2012, 61, 68-80.	0.7	228
88	The New Vienna VLBI Software VieVS. <i>International Association of Geodesy Symposia</i> , 2012, , 1007-1011.	0.2	58
89	Modelling Very Long Baseline Interferometry (VLBI) observations. <i>Journal of Geodesy and Geoinformation</i> , 2012, 1, 17-26.	0.1	3
90	Monte Carlo simulations of the impact of troposphere, clock and measurement errors on the repeatability of VLBI positions. <i>Journal of Geodesy</i> , 2011, 85, 39-50.	1.6	48

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91	Multi-technique comparison of troposphere zenith delays and gradients during CONT08. Journal of Geodesy, 2011, 85, 395-413.	1.6	74
92	Universal time from VLBI single-baseline observations during CONT08. Journal of Geodesy, 2011, 85, 415-423.	1.6	16
93	Global Ionosphere Maps of VTEC from GNSS, satellite altimetry, and formosat-3/COSMIC data. Journal of Geodesy, 2011, 85, 975-987.	1.6	75
94	High-resolution atmospheric angular momentum functions related to Earth rotation parameters during CONT08. Journal of Geodesy, 2011, 85, 425-433.	1.6	17
95	VLBI-derived troposphere parameters during CONT08. Journal of Geodesy, 2011, 85, 377-393.	1.6	21
96	Asymmetric tropospheric delays from numerical weather models for UT1 determination from VLBI Intensive sessions on the baseline Wettzell-Tsukuba. Journal of Geodesy, 2010, 84, 319-325.	1.6	16
97	Achievements of the Earth orientation parameters prediction comparison campaign. Journal of Geodesy, 2010, 84, 587-596.	1.6	106
98	Earth Rotation Observed by Very Long Baseline Interferometry and Ring Laser. Pure and Applied Geophysics, 2009, 166, 1499-1517.	0.8	23
99	Short-term tidal variations in UT1: compliance between modelling and observation. Proceedings of the International Astronomical Union, 2009, 5, 215-215.	0.0	2
100	Determination of UT1 by VLBI. Proceedings of the International Astronomical Union, 2009, 5, 216-216.	0.0	0
101	Very long baseline interferometry: accuracy limits and relativistic tests. Proceedings of the International Astronomical Union, 2009, 5, 286-290.	0.0	6
102	Using the Global Navigation Satellite System and satellite altimetry for combined Global Ionosphere Maps. Advances in Space Research, 2008, 42, 727-736.	1.2	38
103	Modeling thermal deformation of VLBI antennas with a new temperature model. Journal of Geodesy, 2007, 81, 423-431.	1.6	24
104	Effect of different tropospheric mapping functions on the TRF, CRF and position time-series estimated from VLBI. Journal of Geodesy, 2007, 81, 409-421.	1.6	40
105	Short Note: A global model of pressure and temperature for geodetic applications. Journal of Geodesy, 2007, 81, 679-683.	1.6	530
106	Using VLBI fringe-phase information from geodetic experiments for short-period ionospheric studies. Journal of Geodesy, 2007, 81, 389-401.	1.6	2
107	Troposphere gradients from the ECMWF in VLBI analysis. Journal of Geodesy, 2007, 81, 403-408.	1.6	39
108	Combination of long time-series of troposphere zenith delays observed by VLBI. Journal of Geodesy, 2007, 81, 483-501.	1.6	26

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109	VLBI2010: A Vision for Future Geodetic VLBI. , 2007, , 757-759.		13
110	Climatic signals observed by VLBI. Acta Geodaetica Et Geophysica Hungarica, 2006, 41, 159-170.	0.4	4
111	Troposphere mapping functions for GPS and very long baseline interferometry from European Centre for Medium-Range Weather Forecasts operational analysis data. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	794
112	Global Mapping Function (GMF): A new empirical mapping function based on numerical weather model data. Geophysical Research Letters, 2006, 33, .	1.5	1,010
113	Very long baseline interferometry as a tool to probe the ionosphere. Radio Science, 2006, 41, n/a-n/a.	0.8	21
114	Multi-technique comparison of tropospheric zenith delays derived during the CONT02 campaign. Journal of Geodesy, 2006, 79, 613-623.	1.6	67
115	Effects of the 2nd order ionospheric terms on VLBI measurements. Geophysical Research Letters, 2005, 32, .	1.5	33
116	Short Period Variations In Earth Rotation As Seen By VLBI. Surveys in Geophysics, 2000, 21, 499-520.	2.1	14
117	An analysis of a priori and empirical solar radiation pressure models for GPS satellites. Advances in Geosciences, 0, 55, 33-45.	12.0	1
118	Multi-constellation GNSS orbit combination based on MGEX products. Advances in Geosciences, 0, 50, 57-64.	12.0	14